ABSTRACT

SYMMETRICAL TWO PHASE MOTOR WITH A BIPOLAR PERMANENT MAGNET ROTOR AND METHOD OF MAKING SUCH A MOTOR

The two phase motor of small size is formed by a stator comprising principal magnetic poles (8, 10, 12) arranged in the same general plane and by a rotor provided with a bipolar permanent magnet (6). The first and second principal poles are connected to the third principal pole by two magnetic cores respectively, each carrying one of two windings (20, 22). The third principal pole (12) defines to adjacent secondary poles (26, 28) separated from one another by a region (30) of high magnetic reluctance. The first and second principal poles (8, 10) and the two secondary poles (26, 28) are distributed in four sectors of a circle of around 90° around the stator aperture (40). The invention also concerns a method of making the stator of a motor of the type described above.

Figure 2